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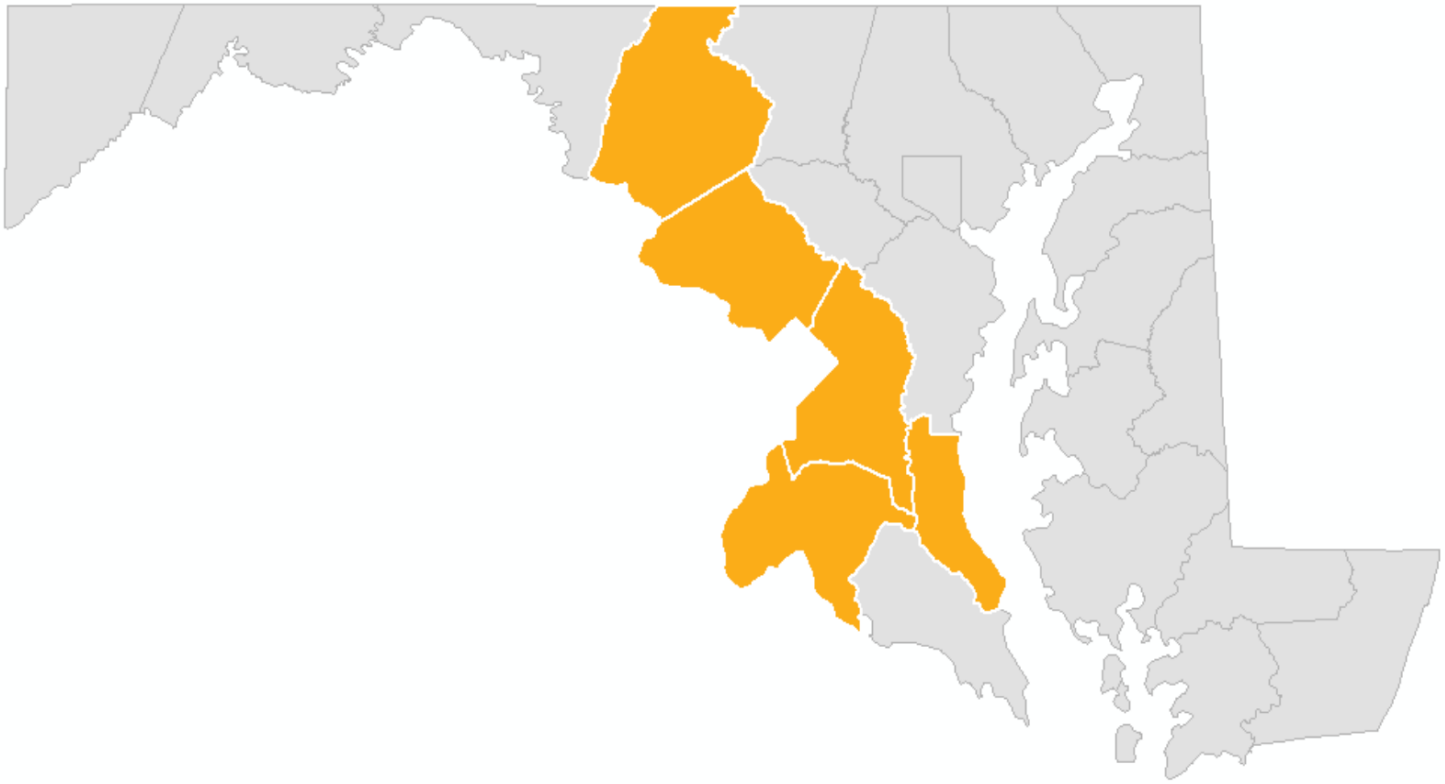

Washington Metro Region Annual HIV Epidemiological Profile

Data reported through June 30, 2018

MARYLAND Department of Health

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
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This report was prepared by the following CHSEE staff: Alyssa Arey, Morgan Boyer, James Carrier, Colin Flynn, Molly Gribbin, Veronica Hart, Trevor Hsu and Jami Stockdale.

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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.

- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.

- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.

- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website:
https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.5 percent for the United States and 14.0 percent for Maryland in 2015. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2016. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of December 31, 2017. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during

the most recent nine and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

This epidemiological profile contains data for transgender HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. Historically, it has been difficult to fully present data by current gender identification. Data on transgender people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number transgender HIV and AIDS cases because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Lastly, the completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial HIV and AIDS cases because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and

previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2017 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV from January 1,2017 to December 31,2017, as reported by name through June 30, 2018.

To calculate the number of Living Cases we count all Reported Diagnoses from the beginning of the epidemic (all new cases each year) and subtract all Reported Deaths. For example, the Total Living HIV Cases on December 31, 2017 are the total reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of June 30, 2018 as reported by name through June 30, 2018.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14 percent. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, June 30, 2018.

Population data by sex, age, and race/ethnicity are from the July 1, 2017 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2016 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from the Centers for Disease Control and Prevention's HIV Surveillance Supplemental Report published March 2018. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Male-to-male Sexual Contact (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Contact (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

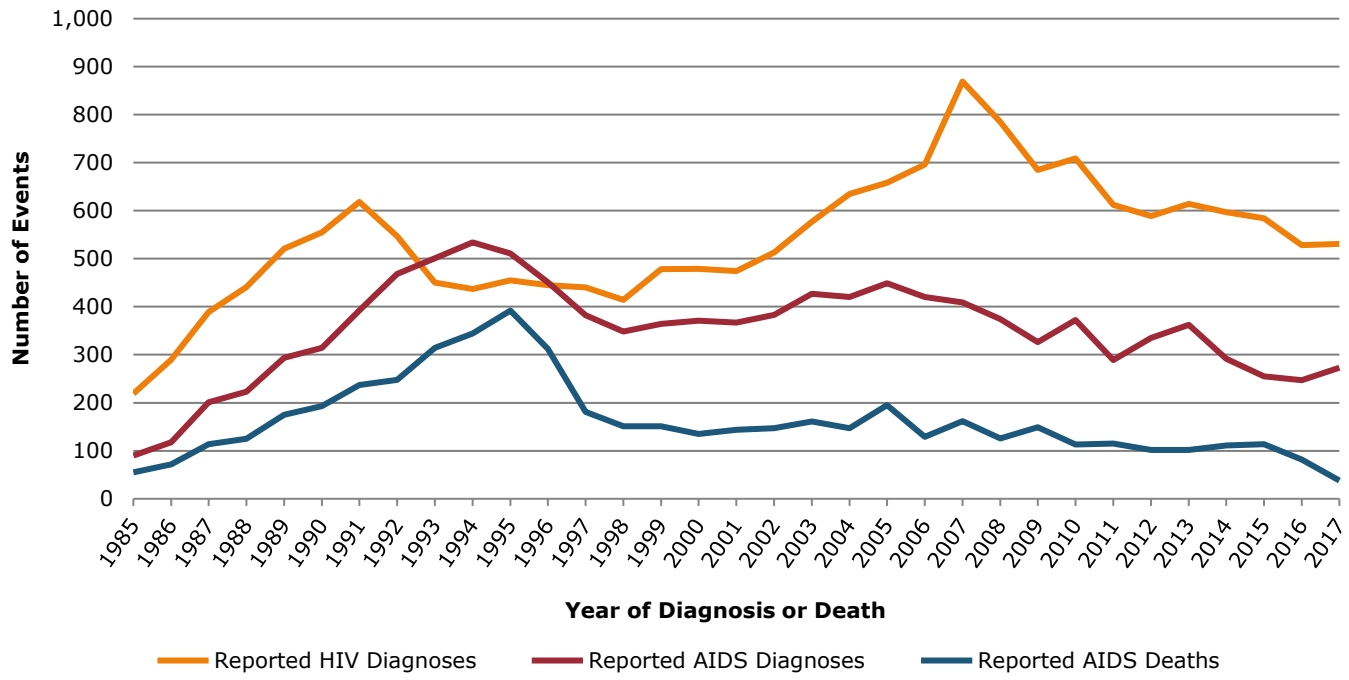
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2017

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2017 as Reported through June 30, 2018

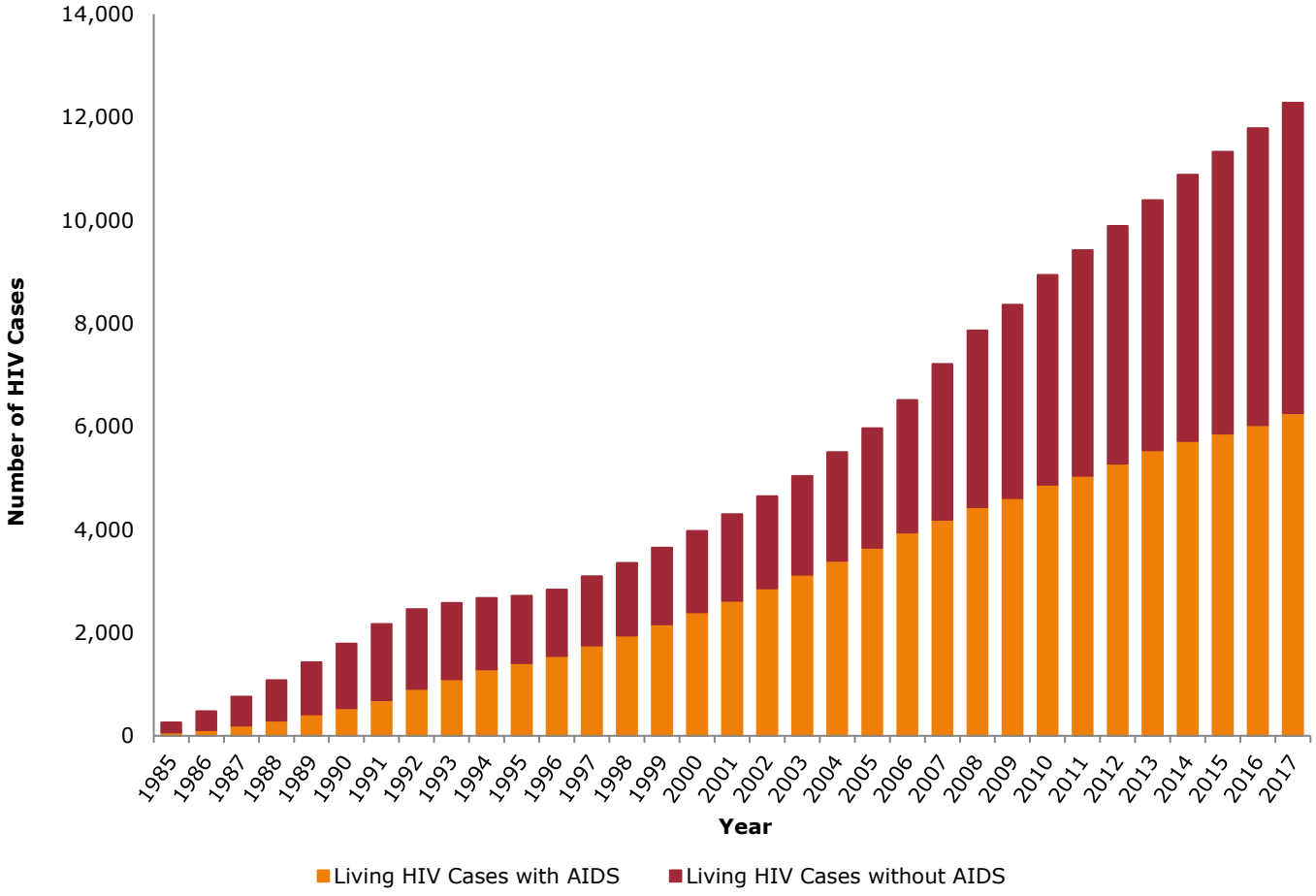


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	117	60	28	**2001**	474	367	144
1985	219	90	55	**2002**	513	383	147
1986	290	118	72	**2003**	577	427	161
1987	389	201	114	**2004**	635	420	147
1988	441	223	125	**2005**	658	449	195
1989	521	294	175	**2006**	696	420	129
1990	555	314	193	**2007**	869	409	162
1991	618	392	237	**2008**	785	374	126
1992	547	468	248	**2009**	685	326	149
1993	450	501	314	**2010**	709	372	113
1994	437	534	344	**2011**	612	289	115
1995	455	511	392	**2012**	589	335	102
1996	445	451	312	**2013**	614	362	102
1997	440	382	181	**2014**	597	292	111
1998	414	348	151	**2015**	584	255	114
1999	478	364	151	**2016***	528	247	82
2000	479	371	135	**2017***	531	273	38
				Total	17,951	11,622	5,364

*2016-2017 reported AIDS deaths are preliminary

Figure 2 – Trends in Living HIV Cases, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

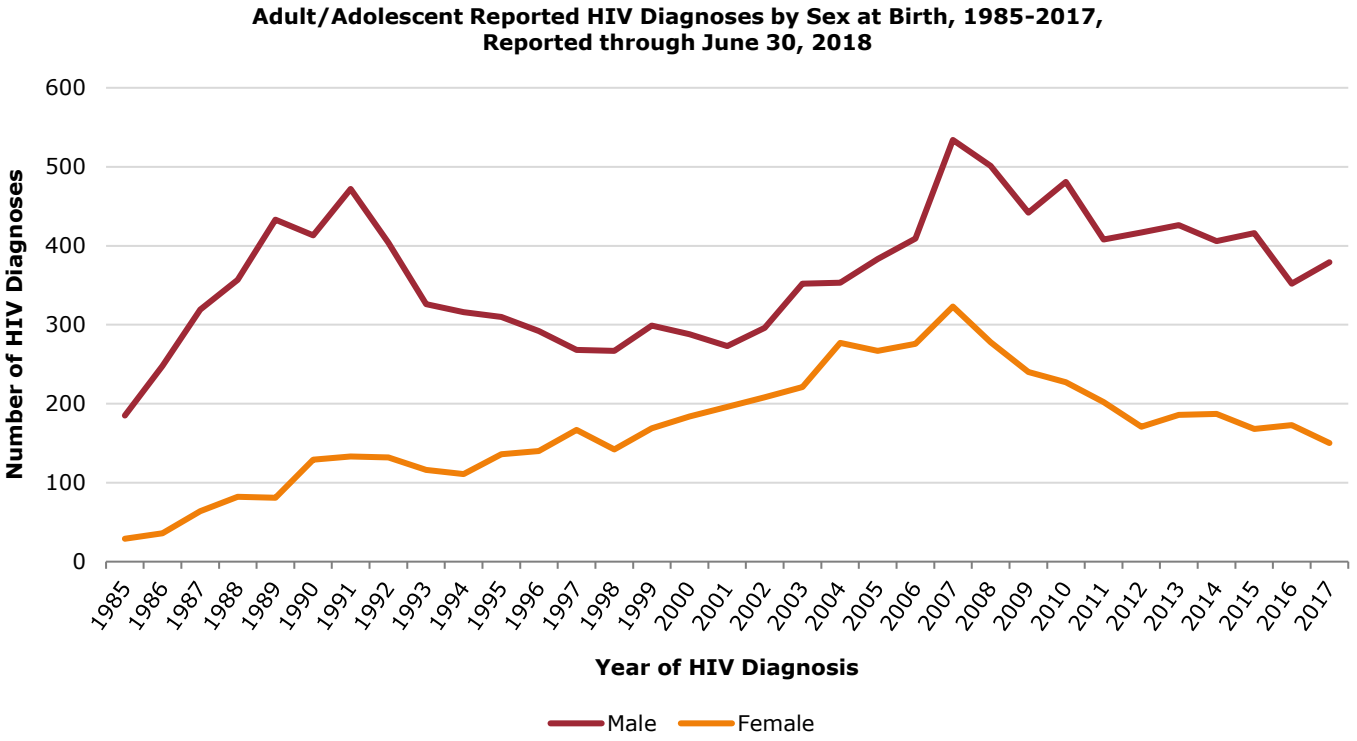
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2017, as Reported through June 30, 2018

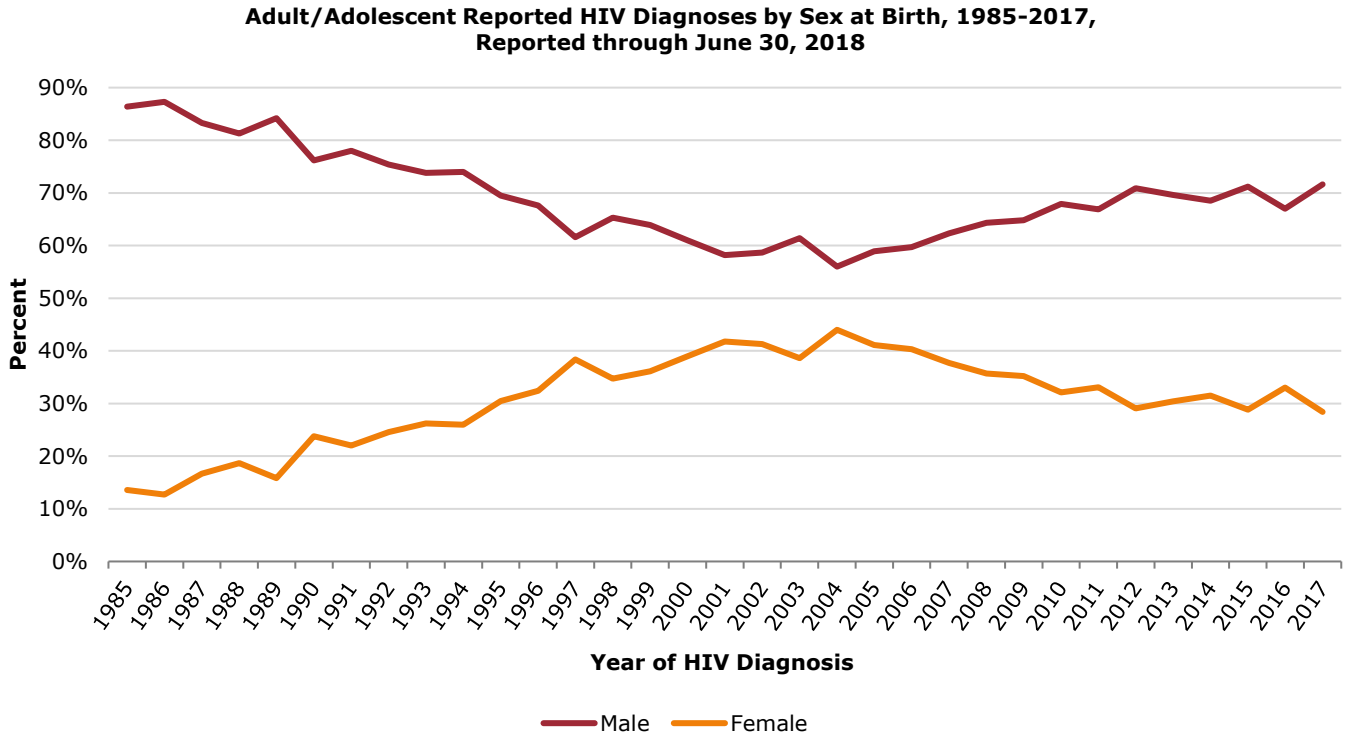


Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases	Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases
1985	196	66	262	**2002**	1,791	2,857	4,648
1986	365	112	477	**2003**	1,916	3,123	5,039
1987	561	199	760	**2004**	2,108	3,396	5,504
1988	780	297	1,077	**2005**	2,315	3,650	5,965
1989	1,013	416	1,429	**2006**	2,572	3,941	6,513
1990	1,252	537	1,789	**2007**	3,021	4,188	7,209
1991	1,477	692	2,169	**2008**	3,425	4,436	7,861
1992	1,543	912	2,455	**2009**	3,746	4,613	8,359
1993	1,477	1,099	2,576	**2010**	4,068	4,872	8,940
1994	1,382	1,290	2,672	**2011**	4,374	5,046	9,420
1995	1,307	1,410	2,717	**2012**	4,610	5,279	9,889
1996	1,285	1,550	2,835	**2013**	4,853	5,539	10,392
1997	1,346	1,751	3,097	**2014**	5,166	5,720	10,886
1998	1,408	1,948	3,356	**2015**	5,470	5,861	11,331
1999	1,487	2,161	3,648	**2016**	5,761	6,026	11,787
2000	1,579	2,397	3,976	**2017**	6,017	6,261	12,278
2001	1,676	2,621	4,297				

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018

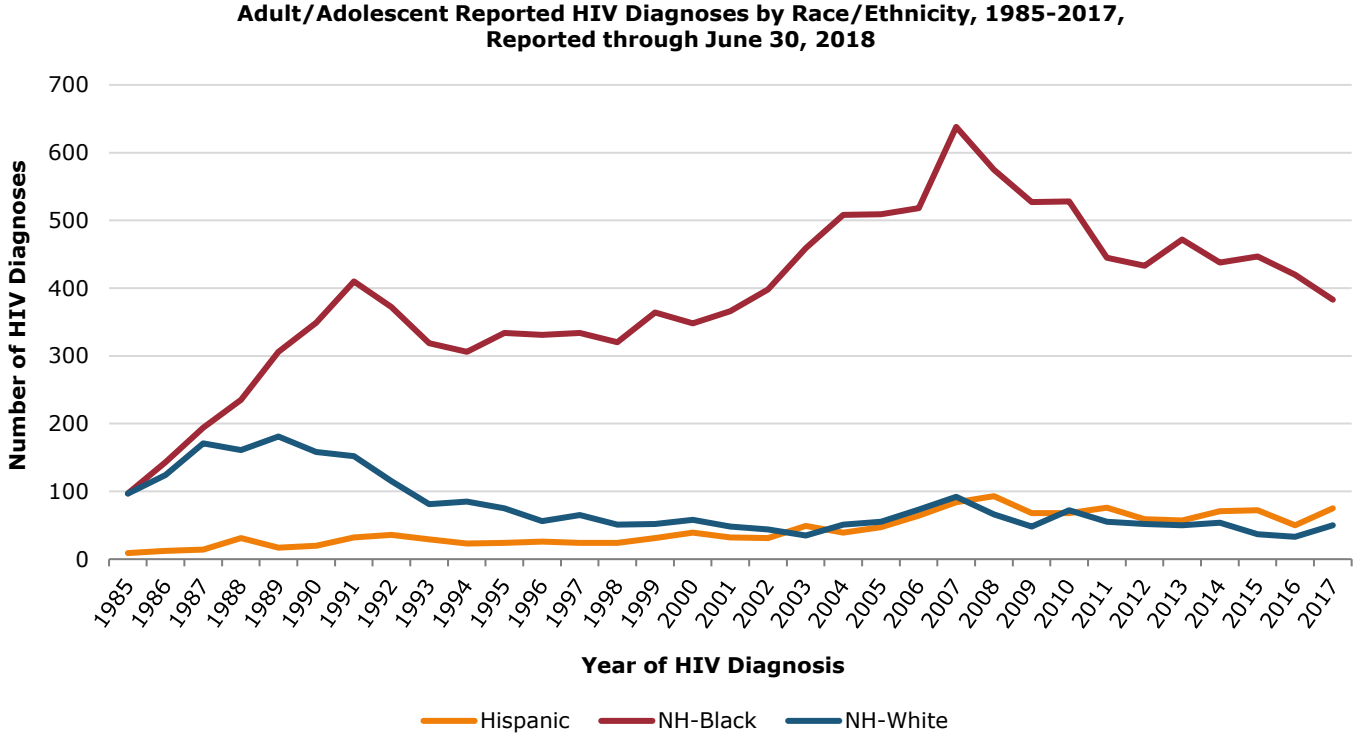


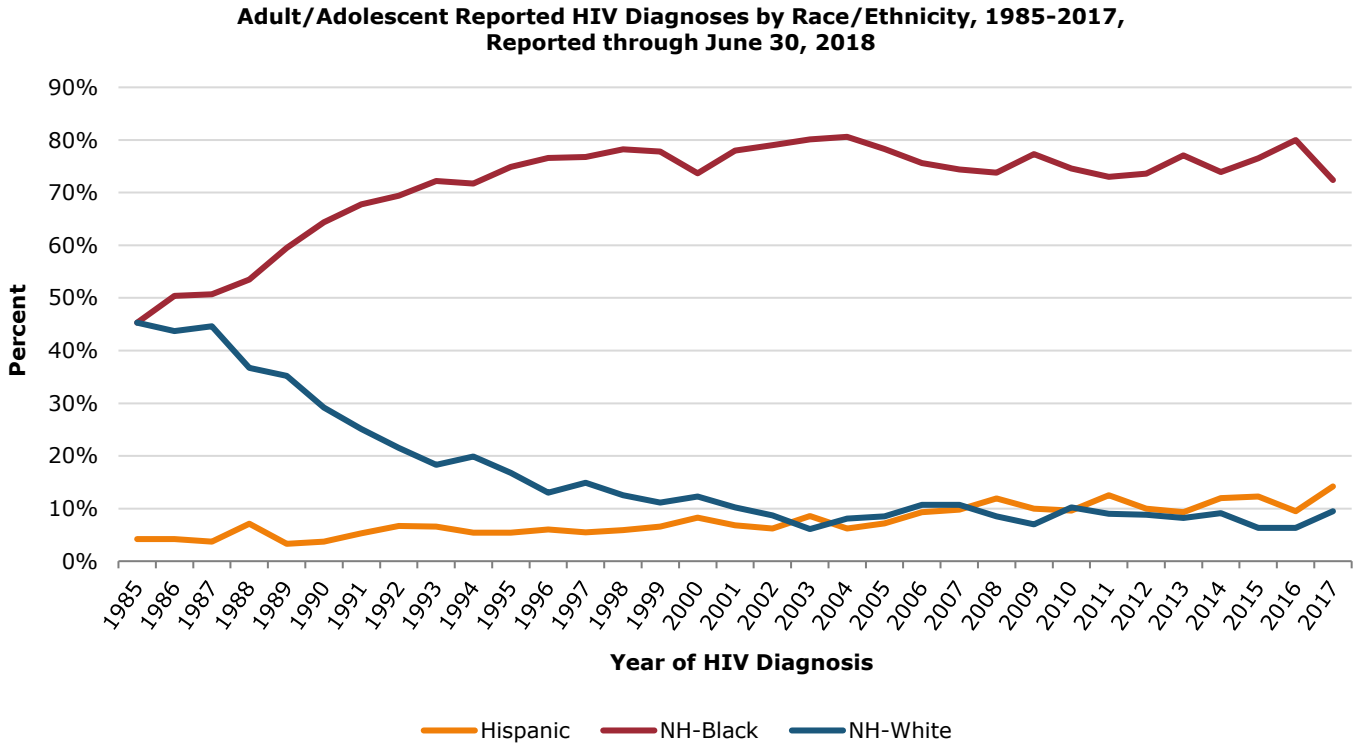


Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses				
	No.	Sex at Birth			
		Male		Female	
		No.	%	No.	%
<1985	116	105	90.5%	11	9.5%
1985	214	185	86.4%	29	13.6%
1986	284	248	87.3%	36	12.7%
1987	383	319	83.3%	64	16.7%
1988	439	357	81.3%	82	18.7%
1989	514	433	84.2%	81	15.8%
1990	542	413	76.2%	129	23.8%
1991	605	472	78.0%	133	22.0%
1992	536	404	75.4%	132	24.6%
1993	442	326	73.8%	116	26.2%
1994	427	316	74.0%	111	26.0%
1995	446	310	69.5%	136	30.5%
1996	432	292	67.6%	140	32.4%
1997	435	268	61.6%	167	38.4%
1998	409	267	65.3%	142	34.7%
1999	468	299	63.9%	169	36.1%
2000	472	288	61.0%	184	39.0%
2001	469	273	58.2%	196	41.8%
2002	504	296	58.7%	208	41.3%
2003	573	352	61.4%	221	38.6%
2004	630	353	56.0%	277	44.0%
2005	650	383	58.9%	267	41.1%
2006	685	409	59.7%	276	40.3%
2007	857	534	62.3%	323	37.7%
2008	779	501	64.3%	278	35.7%
2009	682	442	64.8%	240	35.2%
2010	708	481	67.9%	227	32.1%
2011	610	408	66.9%	202	33.1%
2012	588	417	70.9%	171	29.1%
2013	612	426	69.6%	186	30.4%
2014	593	406	68.5%	187	31.5%
2015	584	416	71.2%	168	28.8%
2016	525	352	67.0%	173	33.0%
2017	529	379	71.6%	150	28.4%
Total	17,742	12,130	68.4%	5,612	31.6%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



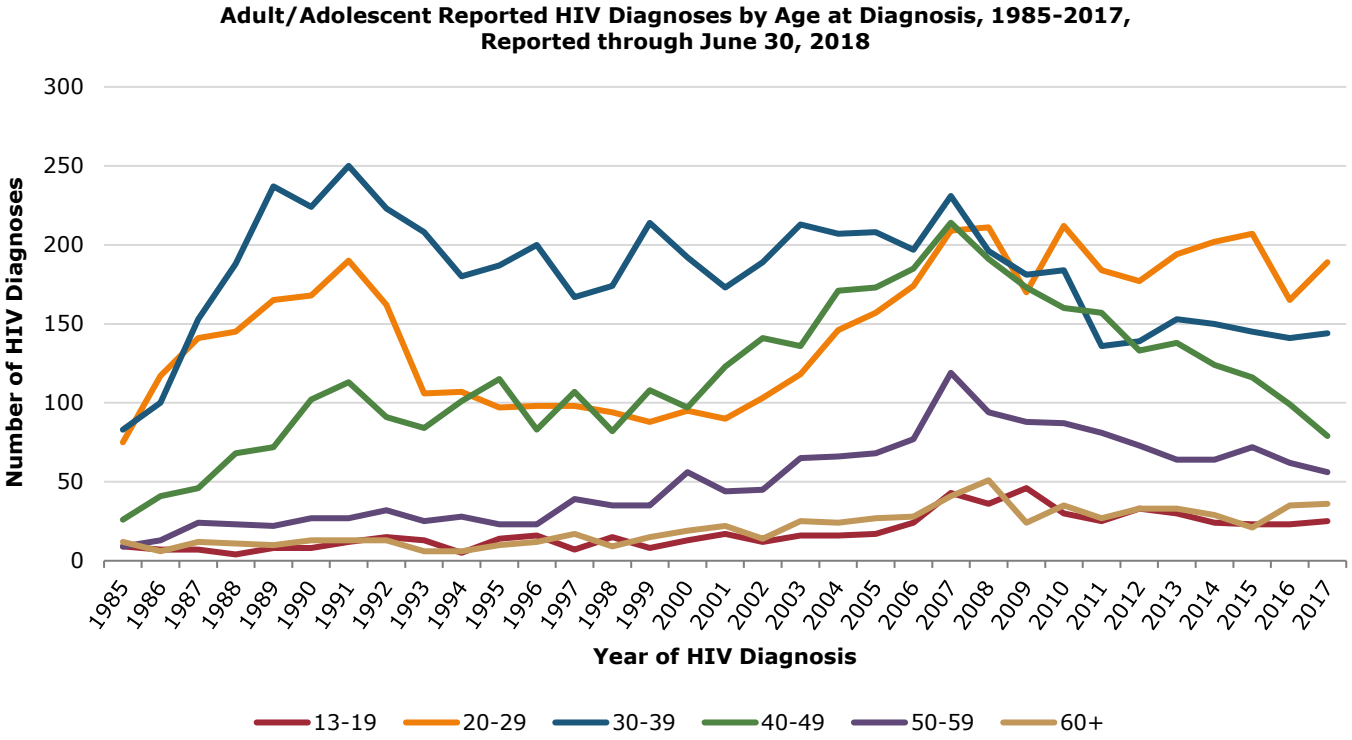


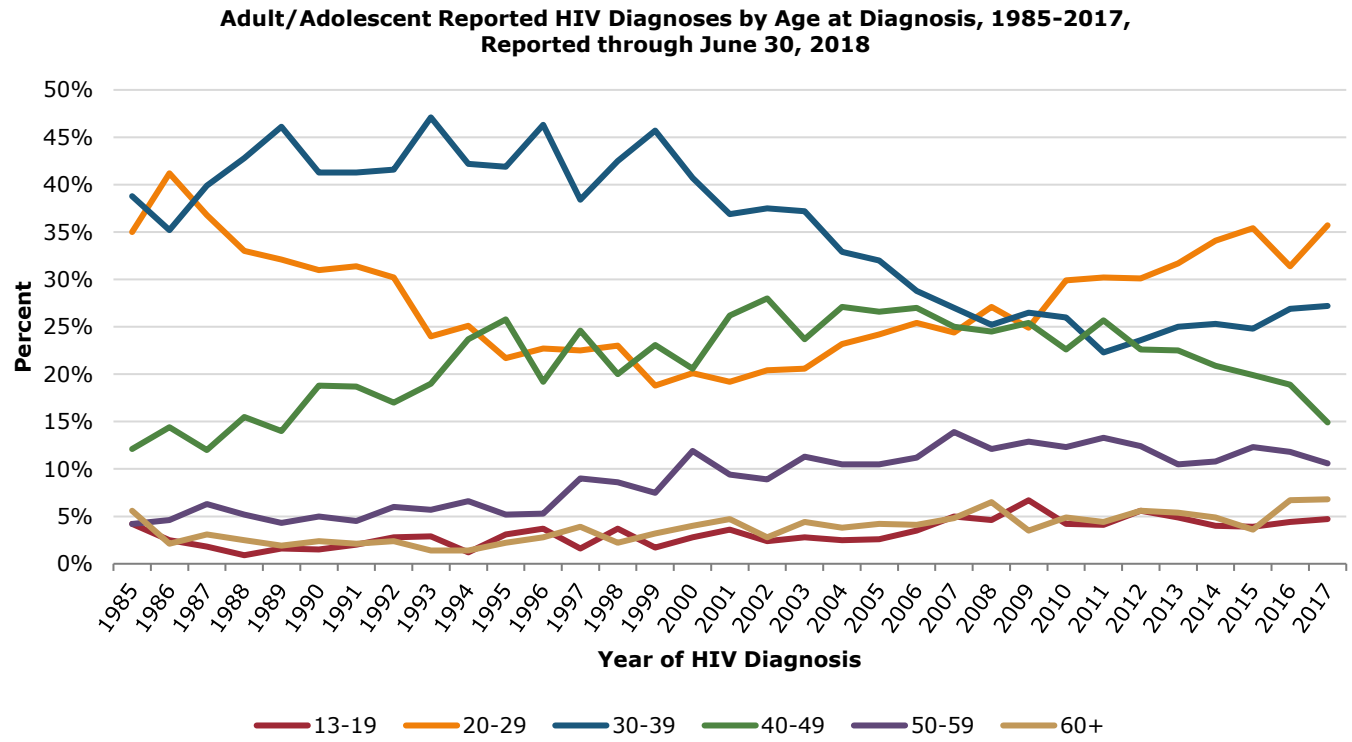
Non-Hispanic Other race not shown

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses								
	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	116	3	2.6%	66	56.9%	42	36.2%	5	4.3%
1985	214	9	4.2%	97	45.3%	97	45.3%	11	5.1%
1986	284	12	4.2%	143	50.4%	124	43.7%	5	1.8%
1987	383	14	3.7%	194	50.7%	171	44.6%	4	1.0%
1988	439	31	7.1%	235	53.5%	161	36.7%	12	2.7%
1989	514	17	3.3%	306	59.5%	181	35.2%	10	1.9%
1990	542	20	3.7%	349	64.4%	158	29.2%	15	2.8%
1991	605	32	5.3%	410	67.8%	152	25.1%	11	1.8%
1992	536	36	6.7%	372	69.4%	115	21.5%	13	2.4%
1993	442	29	6.6%	319	72.2%	81	18.3%	13	2.9%
1994	427	23	5.4%	306	71.7%	85	19.9%	13	3.0%
1995	446	24	5.4%	334	74.9%	75	16.8%	13	2.9%
1996	432	26	6.0%	331	76.6%	56	13.0%	19	4.4%
1997	435	24	5.5%	334	76.8%	65	14.9%	12	2.8%
1998	409	24	5.9%	320	78.2%	51	12.5%	14	3.4%
1999	468	31	6.6%	364	77.8%	52	11.1%	21	4.5%
2000	472	39	8.3%	348	73.7%	58	12.3%	27	5.7%
2001	469	32	6.8%	366	78.0%	48	10.2%	23	4.9%
2002	504	31	6.2%	398	79.0%	44	8.7%	31	6.2%
2003	573	49	8.6%	459	80.1%	35	6.1%	30	5.2%
2004	630	39	6.2%	508	80.6%	51	8.1%	32	5.1%
2005	650	47	7.2%	509	78.3%	55	8.5%	39	6.0%
2006	685	64	9.3%	518	75.6%	73	10.7%	30	4.4%
2007	857	84	9.8%	638	74.4%	92	10.7%	43	5.0%
2008	779	93	11.9%	575	73.8%	66	8.5%	45	5.8%
2009	682	68	10.0%	527	77.3%	48	7.0%	39	5.7%
2010	708	68	9.6%	528	74.6%	72	10.2%	40	5.6%
2011	610	76	12.5%	445	73.0%	55	9.0%	34	5.6%
2012	588	59	10.0%	433	73.6%	52	8.8%	44	7.5%
2013	612	57	9.3%	472	77.1%	50	8.2%	33	5.4%
2014	593	71	12.0%	438	73.9%	54	9.1%	30	5.1%
2015	584	72	12.3%	447	76.5%	37	6.3%	28	4.8%
2016	525	50	9.5%	420	80.0%	33	6.3%	22	4.2%
2017	529	75	14.2%	383	72.4%	50	9.5%	21	4.0%
Total	17,742	1,429	8.1%	12,892	72.7%	2,639	14.9%	782	4.4%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018

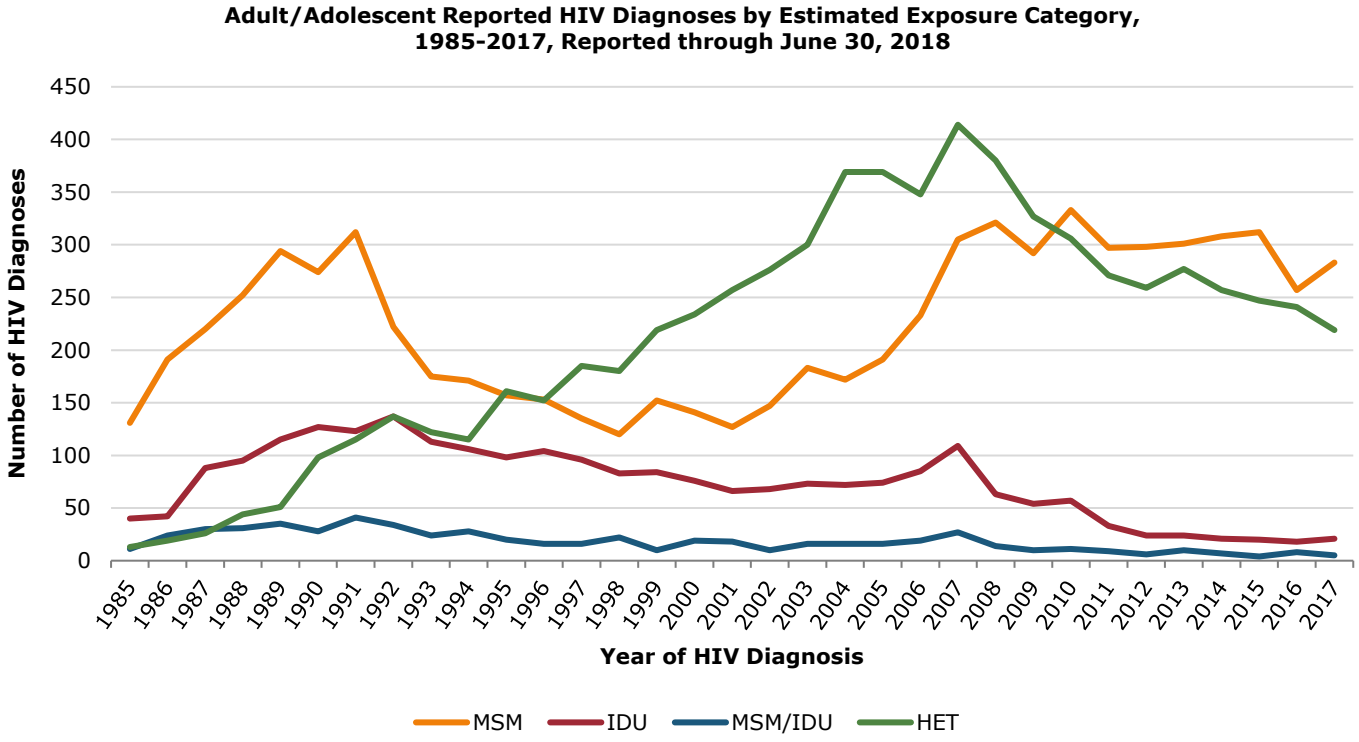


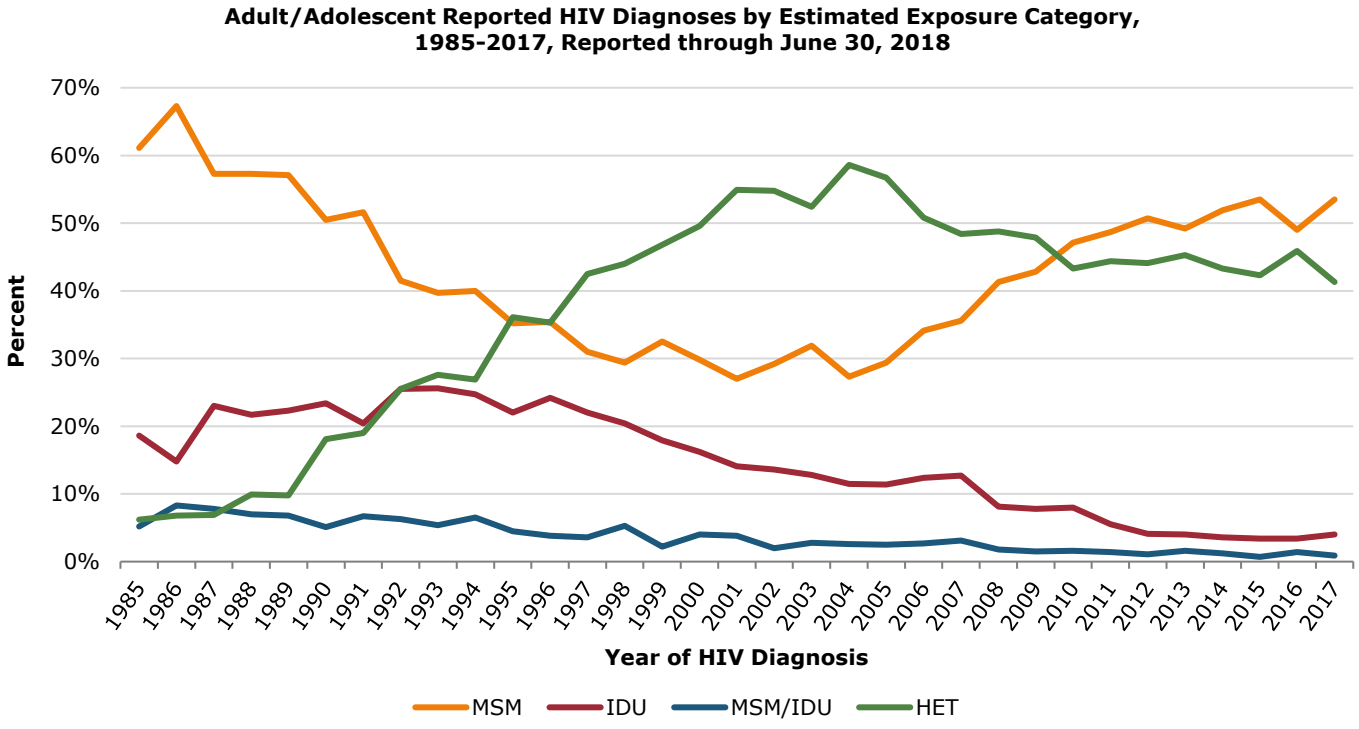


Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses												
	No.	Age at HIV Diagnosis											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	116	12	10.3%	41	35.3%	35	30.2%	21	18.1%	4	3.4%	3	2.6%
1985	214	9	4.2%	75	35.0%	83	38.8%	26	12.1%	9	4.2%	12	5.6%
1986	284	7	2.5%	117	41.2%	100	35.2%	41	14.4%	13	4.6%	6	2.1%
1987	383	7	1.8%	141	36.8%	153	39.9%	46	12.0%	24	6.3%	12	3.1%
1988	439	4	0.9%	145	33.0%	188	42.8%	68	15.5%	23	5.2%	11	2.5%
1989	514	8	1.6%	165	32.1%	237	46.1%	72	14.0%	22	4.3%	10	1.9%
1990	542	8	1.5%	168	31.0%	224	41.3%	102	18.8%	27	5.0%	13	2.4%
1991	605	12	2.0%	190	31.4%	250	41.3%	113	18.7%	27	4.5%	13	2.1%
1992	536	15	2.8%	162	30.2%	223	41.6%	91	17.0%	32	6.0%	13	2.4%
1993	442	13	2.9%	106	24.0%	208	47.1%	84	19.0%	25	5.7%	6	1.4%
1994	427	5	1.2%	107	25.1%	180	42.2%	101	23.7%	28	6.6%	6	1.4%
1995	446	14	3.1%	97	21.7%	187	41.9%	115	25.8%	23	5.2%	10	2.2%
1996	432	16	3.7%	98	22.7%	200	46.3%	83	19.2%	23	5.3%	12	2.8%
1997	435	7	1.6%	98	22.5%	167	38.4%	107	24.6%	39	9.0%	17	3.9%
1998	409	15	3.7%	94	23.0%	174	42.5%	82	20.0%	35	8.6%	9	2.2%
1999	468	8	1.7%	88	18.8%	214	45.7%	108	23.1%	35	7.5%	15	3.2%
2000	472	13	2.8%	95	20.1%	192	40.7%	97	20.6%	56	11.9%	19	4.0%
2001	469	17	3.6%	90	19.2%	173	36.9%	123	26.2%	44	9.4%	22	4.7%
2002	504	12	2.4%	103	20.4%	189	37.5%	141	28.0%	45	8.9%	14	2.8%
2003	573	16	2.8%	118	20.6%	213	37.2%	136	23.7%	65	11.3%	25	4.4%
2004	630	16	2.5%	146	23.2%	207	32.9%	171	27.1%	66	10.5%	24	3.8%
2005	650	17	2.6%	157	24.2%	208	32.0%	173	26.6%	68	10.5%	27	4.2%
2006	685	24	3.5%	174	25.4%	197	28.8%	185	27.0%	77	11.2%	28	4.1%
2007	857	43	5.0%	209	24.4%	231	27.0%	214	25.0%	119	13.9%	41	4.8%
2008	779	36	4.6%	211	27.1%	196	25.2%	191	24.5%	94	12.1%	51	6.5%
2009	682	46	6.7%	170	24.9%	181	26.5%	173	25.4%	88	12.9%	24	3.5%
2010	708	30	4.2%	212	29.9%	184	26.0%	160	22.6%	87	12.3%	35	4.9%
2011	610	25	4.1%	184	30.2%	136	22.3%	157	25.7%	81	13.3%	27	4.4%
2012	588	33	5.6%	177	30.1%	139	23.6%	133	22.6%	73	12.4%	33	5.6%
2013	612	30	4.9%	194	31.7%	153	25.0%	138	22.5%	64	10.5%	33	5.4%
2014	593	24	4.0%	202	34.1%	150	25.3%	124	20.9%	64	10.8%	29	4.9%
2015	584	23	3.9%	207	35.4%	145	24.8%	116	19.9%	72	12.3%	21	3.6%
2016	525	23	4.4%	165	31.4%	141	26.9%	99	18.9%	62	11.8%	35	6.7%
2017	529	25	4.7%	189	35.7%	144	27.2%	79	14.9%	56	10.6%	36	6.8%
Total	17,742	613	3.5%	4,895	27.6%	6,002	33.8%	3,870	21.8%	1,670	9.4%	692	3.9%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Estimated Exposure Category§ of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018





Other exposure category not shown.

§ Multiple imputation was used to estimate and adjust for missing transmission category.

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses											
	No.	% with No Reported Exposure[¥]	Estimated Exposure Category[§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	116	10.3%	79	68.0%	16	14.1%	10	8.4%	8	6.9%	3	2.6%
1985	214	7.0%	131	61.1%	40	18.6%	11	5.2%	13	6.2%	19	8.9%
1986	284	3.5%	191	67.3%	42	14.8%	24	8.3%	19	6.8%	8	2.8%
1987	383	4.2%	220	57.3%	88	23.0%	30	7.8%	26	6.9%	19	5.0%
1988	439	6.2%	252	57.3%	95	21.7%	31	7.0%	44	9.9%	18	4.1%
1989	514	7.2%	294	57.1%	115	22.3%	35	6.8%	51	9.8%	20	3.9%
1990	542	5.4%	274	50.5%	127	23.4%	28	5.1%	98	18.1%	16	3.0%
1991	605	7.3%	312	51.6%	123	20.4%	41	6.7%	115	19.0%	14	2.3%
1992	536	11.4%	222	41.5%	137	25.5%	34	6.3%	137	25.5%	7	1.3%
1993	442	8.8%	175	39.7%	113	25.6%	24	5.4%	122	27.6%	8	1.8%
1994	427	9.6%	171	40.0%	106	24.7%	28	6.5%	115	26.9%	8	1.9%
1995	446	12.6%	157	35.2%	98	22.0%	20	4.5%	161	36.1%	10	2.2%
1996	432	16.0%	153	35.4%	104	24.2%	16	3.8%	152	35.3%	6	1.4%
1997	435	14.9%	135	31.0%	96	22.0%	16	3.6%	185	42.5%	4	0.9%
1998	409	17.1%	120	29.4%	83	20.4%	22	5.3%	180	44.0%	4	1.0%
1999	468	16.5%	152	32.5%	84	17.9%	10	2.2%	219	46.8%	3	0.6%
2000	472	19.5%	141	29.8%	76	16.2%	19	4.0%	234	49.6%	2	0.4%
2001	469	17.9%	127	27.0%	66	14.1%	18	3.8%	257	54.9%	1	0.2%
2002	504	13.3%	147	29.2%	68	13.6%	10	2.0%	276	54.8%	2	0.4%
2003	573	14.8%	183	31.9%	73	12.8%	16	2.8%	300	52.4%	1	0.2%
2004	630	20.2%	172	27.3%	72	11.5%	16	2.6%	369	58.6%	0	0.0%
2005	650	21.5%	191	29.4%	74	11.4%	16	2.5%	369	56.7%	0	0.0%
2006	685	28.8%	233	34.1%	85	12.4%	19	2.7%	348	50.8%	0	0.0%
2007	857	31.4%	305	35.6%	109	12.7%	27	3.1%	414	48.4%	2	0.2%
2008	779	38.4%	321	41.3%	63	8.1%	14	1.8%	380	48.8%	0	0.0%
2009	682	39.3%	292	42.8%	54	7.8%	10	1.5%	327	47.9%	0	0.0%
2010	708	40.5%	333	47.1%	57	8.0%	11	1.6%	306	43.3%	0	0.0%
2011	610	40.2%	297	48.7%	33	5.5%	9	1.4%	271	44.4%	0	0.0%
2012	588	26.4%	298	50.7%	24	4.1%	6	1.1%	259	44.1%	0	0.0%
2013	612	22.7%	301	49.2%	24	4.0%	10	1.6%	277	45.3%	0	0.0%
2014	593	21.1%	308	51.9%	21	3.6%	7	1.2%	257	43.3%	0	0.0%
2015	584	15.2%	312	53.5%	20	3.4%	4	0.7%	247	42.3%	1	0.2%
2016	525	19.0%	257	49.0%	18	3.4%	8	1.4%	241	45.9%	1	0.2%
2017	529	23.8%	283	53.5%	21	4.0%	5	0.9%	219	41.3%	1	0.2%
Total	17,742	20.1%	7,539	42.5%	2,427	13.7%	602	3.4%	6,995	39.4%	178	1.0%

§ Multiple imputation was used to estimate and adjust for missing transmission category

[¥]Percent with no reported exposure prior to multiple imputation adjustment

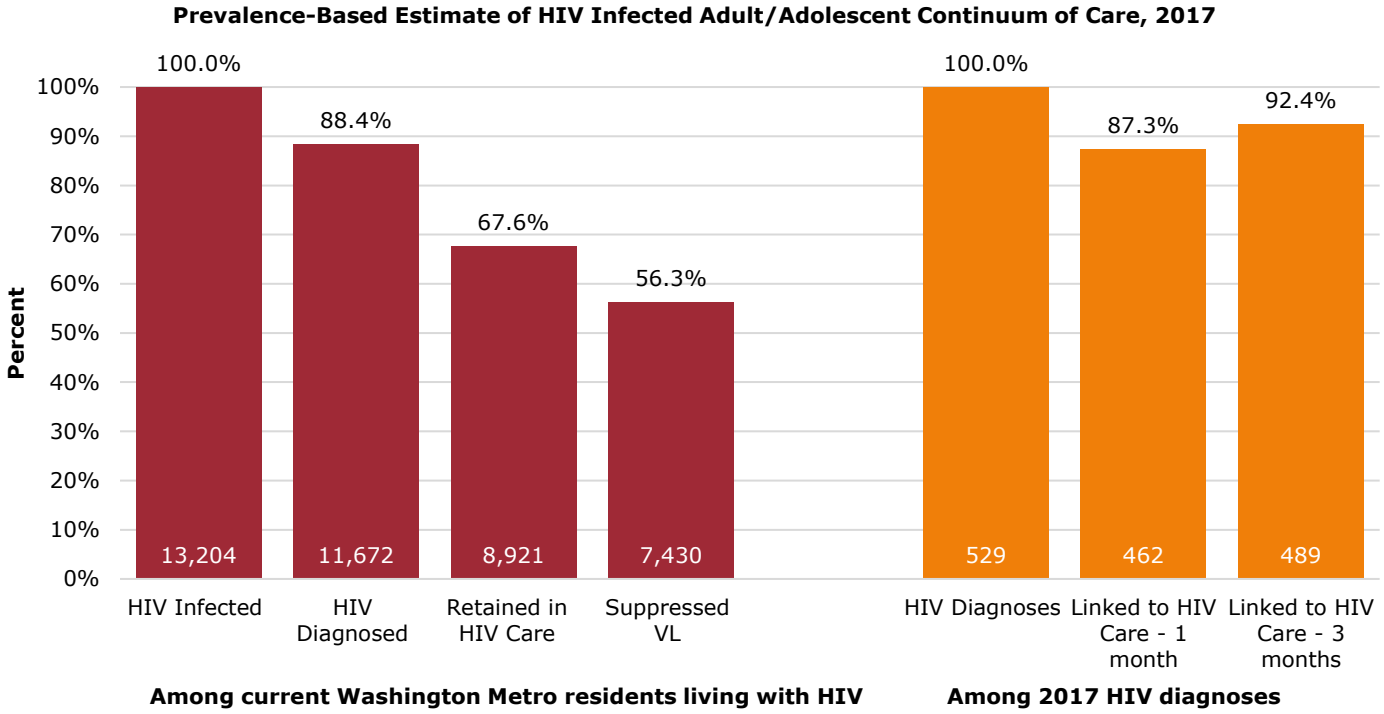
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation

Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.[1] utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Washington Metro Residents, Reported through June 30, 2018

The prevalence-based Washington Metro Engagement in HIV Care Cascade (below) applies the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2018, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of HIV infected persons currently residing in the Washington Metro area. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Washington Metro area on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.

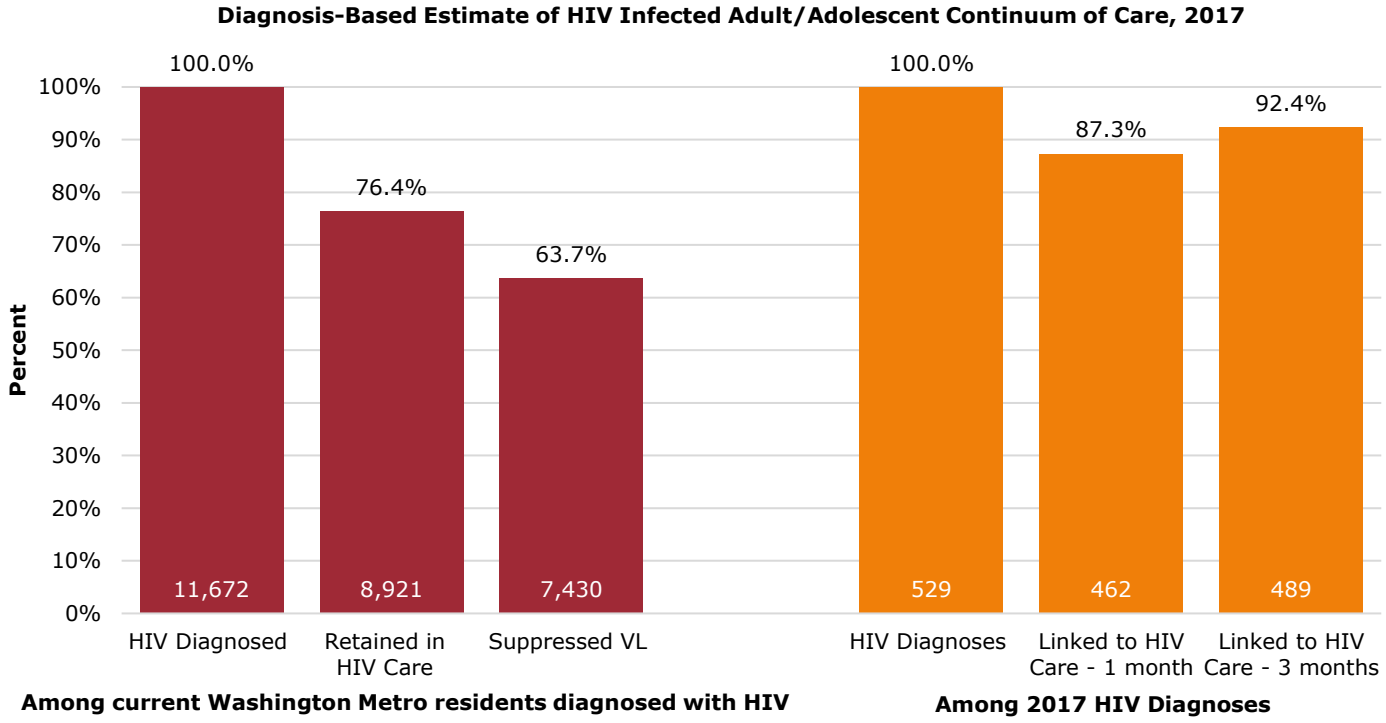


Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	13,204	100.0%	New HIV Diagnoses	529	100.0%
HIV Diagnosed	11,672	88.4%	Linked to HIV Care – 1 Month	462	87.3%
Retained in HIV Care	8,921	67.6%	Linked to HIV Care – 3 Months	489	92.4%
Suppressed VL	7,430	56.3%			

[1] Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 793-800.
[2] Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published March 2018.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Washington Metro Residents, Reported through June 30, 2018

The diagnosis-based Washington Metro Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Washington Metro area residents to describe the number and percentage of persons living with HIV in the Washington Metro area on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	11,672	100.0%	New HIV Diagnoses	529	100.0%
Retained in HIV Care	8,921	76.4%	Linked to HIV Care – 1 Month	462	87.3%
Suppressed VL	7,430	63.7%	Linked to HIV Care – 3 Months	489	92.4%

Section IV – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Calvert	76,935	5	0.9%	6.5	80.0%	100.0%	***	100.0%	32
Charles	132,657	24	4.5%	18.1	95.8%	95.8%	37.5%	95.8%	284
Frederick	211,010	16	3.0%	7.6	100.0%	100.0%	***	87.5%	459
Montgomery	882,259	164	31.0%	18.6	81.7%	88.4%	29.9%	92.1%	353
Prince George's	763,442	320	60.5%	41.9	89.1%	93.8%	31.6%	91.9%	330
Total	2,066,304	529	100.0%	25.6	87.3%	92.4%	31.2%	92.1%	343

*** Data withheld due to low population counts and/or case counts

Table 2 – Adult/Adolescent AIDS Diagnoses during 2017, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Calvert	76,935	6	2.2%	7.8	2.9	83.3%
Charles	132,657	15	5.5%	11.3	3.1	60.0%
Frederick	211,010	7	2.6%	3.3	6.8	28.6%
Montgomery	882,259	59	21.8%	6.7	2.6	74.6%
Prince George's	763,442	184	67.9%	24.1	4.1	56.0%
Total	2,066,304	271	100.0%	13.1	3.7	60.1%

*** Data withheld due to low population counts and/or case counts

Table 3 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at Diagnosis	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Calvert	76,935	53	0.9%	68.9	61	1.0%	79.3	114	0.9%	148.2	1,451
Charles	132,657	243	4.1%	183.2	206	3.3%	155.3	449	3.7%	338.5	545
Frederick	211,010	184	3.1%	87.2	158	2.5%	74.9	342	2.8%	162.1	1,146
Montgomery	882,259	1,896	31.6%	214.9	2,035	32.5%	230.7	3,931	32.1%	445.6	465
Prince George's	763,442	3,620	60.4%	474.2	3,798	60.7%	497.5	7,418	60.5%	971.7	210
Total	2,066,304	5,996	100.0%	290.2	6,258	100.0%	302.9	12,254	100.0%	593.0	344

Table 4 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2018

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								% Change
		Residence at Diagnosis				Current Residence				
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Calvert	76,935	114	0.9%	148.2	674	130	1.1%	169.0	591	14.0%
Charles	132,657	449	3.7%	338.5	295	518	4.4%	390.5	256	15.4%
Frederick	211,010	342	2.8%	162.1	616	410	3.5%	194.3	514	19.9%
Montgomery	882,259	3,931	32.1%	445.6	224	3,253	27.9%	368.7	271	-17.2%
Prince George's	763,442	7,418	60.5%	971.7	102	7,361	63.1%	964.2	103	-0.8%
Total	2,066,304	12,254	100.0%	593.0	168	11,672	100.0%	564.9	177	-4.7%

Table 5 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Calvert	130	105	80.8%	661	7.6%	12.4%	18.1%	61.9%
Charles	518	413	79.7%	604	10.4%	11.6%	14.8%	63.2%
Frederick	410	300	73.2%	608	8.7%	9.7%	16.0%	65.7%
Montgomery	3,253	2,345	72.1%	585	8.0%	11.6%	18.8%	61.6%
Prince George's	7,361	5,445	74.0%	581	9.1%	12.6%	17.8%	60.6%
Total	11,672	8,608	73.7%	586	8.8%	12.2%	17.9%	61.2%

Table 6 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Calvert	130	103	79.2%	90.3%	4,805
Charles	518	419	80.9%	83.5%	10,297
Frederick	410	306	74.6%	87.3%	8,001
Montgomery	3,253	2,359	72.5%	88.1%	7,895
Prince George's	7,361	5,493	74.6%	84.5%	14,157
Total	11,672	8,680	74.4%	85.6%	12,002

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2018

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
<5 (Pediatric)	155,617	1	0.2%	0.6	***	***	***	***	***
5-12 (Pediatric)	252,869	1	0.2%	0.4	***	***	***	***	***
13-19	221,813	25	4.7%	11.3	92.0%	96.0%	20.0%	100.0%	365
20-29	320,488	189	35.6%	59.0	86.8%	91.0%	18.0%	91.5%	382
30-39	340,761	144	27.1%	42.3	93.1%	95.8%	34.7%	90.3%	314
40-49	336,211	79	14.9%	23.5	84.8%	92.4%	45.6%	94.9%	254
50-59	355,575	56	10.5%	15.7	85.7%	92.9%	46.4%	94.6%	248
60+	491,456	36	6.8%	7.3	72.2%	83.3%	38.9%	86.1%	265
Total	2,474,790	531	100.0%	21.5	87.2%	92.5%	31.1%	92.1%	343

*** Data withheld due to low population counts and/or case counts

Table 8 – HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Population	Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	155,617	5	0	0	3.2	31,123
5-12	252,869	32	0.3	15.6	12.7	7,902
13-19	221,813	91	0.8	29.7	41.0	2,437
20-29	320,488	1,341	11.5	25	418.4	238
30-39	340,761	2,490	21.3	39.1	730.7	136
40-49	336,211	2,939	25.1	55.8	874.2	114
50-59	355,575	3,099	26.5	60.2	871.5	114
60+	491,456	1,712	14.6	61.4	348.4	287
Total	2,474,790	11,709	100	50.4	473.1	211

Table 9 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	91	71	78.0%	538	8.5%	9.9%	19.7%	62.0%
20-29	1,341	955	71.2%	603	7.5%	11.5%	17.3%	63.7%
30-39	2,490	1,765	70.9%	583	9.7%	10.8%	17.8%	61.6%
40-49	2,939	2,168	73.8%	575	9.7%	12.5%	18.5%	59.3%
50-59	3,099	2,346	75.7%	597	8.8%	12.5%	16.6%	62.1%
60+	1,712	1,303	76.1%	579	7.0%	13.4%	19.4%	60.2%
Total	11,672	8,608	73.7%	586	8.8%	12.2%	17.9%	61.2%

Table 10 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
13-19	91	78	85.7%	65.4%	13,610
20-29	1,341	966	72.0%	72.7%	17,203
30-39	2,490	1,786	71.7%	82.9%	13,590
40-49	2,939	2,180	74.2%	86.5%	9,530
50-59	3,099	2,366	76.3%	88.9%	9,520
60+	1,712	1,304	76.2%	92.6%	4,930
Total	11,672	8,680	74.4%	85.6%	12,002

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Population Age 13+*	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Sex at Birth									
Male	989,497	379	71.6%	38.3	88.1%	92.6%	30.3%	92.3%	346
Female	1,076,807	150	28.4%	13.9	85.3%	92.0%	33.3%	91.3%	335
Gender									
Male	--	378	71.5%	--	***	***	***	***	***
Female	--	150	28.4%	--	***	***	***	***	***
Transgender Female	--	1	0.2%	--	***	***	***	***	***
Transgender Male	--	0	0.0%	--	--	--	--	--	--
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	310,943	75	14.2%	24.1	88.0%	92.0%	38.7%	89.3%	298
Non-Hispanic	1,755,361	454	85.8%	25.9	87.2%	92.5%	30.0%	92.5%	344
American Indian/Alaska Native, only	4,968	0	0.0%	0.0	--	--	--	--	--
Asian, only	191,036	8	1.8%	4.2	87.5%	87.5%	***	100.0%	325
Black, only	732,887	383	84.4%	52.3	87.2%	92.7%	29.2%	92.2%	343
Native Hawaiian/Other Pacific Islander, only	1,069	0	0.0%	0.0	--	--	--	--	--
White, only	785,050	50	11.0%	6.4	90.0%	94.0%	32.0%	92.0%	390
Multiracial/Other	40,350	13	2.9%	32.2	76.9%	84.6%	***	100.0%	254
Total	2,066,304	529	100.0%	25.6	87.3%	92.4%	31.2%	92.1%	343
Country of Birth									
United States	1,466,951	388	73.3%	26.4	87.4%	91.2%	31.7%	91.8%	341
Foreign-Born	538,435	106	20.0%	19.7	85.8%	95.3%	34.0%	93.4%	324
Africa	--	80	75.5%	--	86.3%	96.3%	35.0%	93.8%	310
Asia	--	4	3.8%	--	***	***	***	***	***
Caribbean	--	5	4.7%	--	***	***	***	***	***
Central America	--	14	13.2%	--	85.7%	92.9%	42.9%	92.9%	347
Other	--	3	2.8%	--	***	***	***	***	***
Unknown	--	35	6.6%	--	91.4%	97.1%	17.1%	91.4%	400
Total	2,005,387	529	100.0%	26.4	87.3%	92.4%	31.2%	92.1%	343

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

*** Data withheld due to low population and/or case counts

Table 12 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Population Age 13+	Adult/Adolescent Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Sex at Birth						
Male	989,497	7,664	65.7%	49.7%	774.5	129
Female	1,076,807	4,008	34.3%	51.9%	372.2	268
Gender						
Male	--	7,600	65.1%	49.8%	--	--
Female	--	4,006	34.3%	51.9%	--	--
Transgender Female	--	64	0.5%	46.9%	--	--
Transgender Male	--	2	0.0%	100.0%	--	--
Another Gender Identity	--	0	0.0%	0.0%	--	--
Race/Ethnicity						
Hispanic	310,943	1,108	9.5%	54.0%	356.3	280
Non-Hispanic	1,755,361	10,564	90.5%	50.1%	601.8	166
American Indian/Alaska Native, only	4,968	7	0.1%	14.3%	140.9	709
Asian, only	191,036	104	1.0%	38.5%	54.4	1,836
Black, only	732,887	8,773	83.0%	50.6%	1,197.0	83
Native Hawaiian/Other Pacific Islander, only	1,069	1	0.0%	100.0%	93.5	1,069
White, only	785,050	1,100	10.4%	44.1%	140.1	713
Multiracial/Other	40,350	579	5.5%	56.8%	1,434.9	69
Total	2,066,304	11,672	100.0%	50.5%	564.9	177
Country of Birth						
United States	1,466,951	9,248	79.2%	50.5%	630.4	158
Foreign-Born	538,435	2,042	17.5%	53.9%	379.2	263
Africa	--	1,380	67.6%	53.7%	--	--
Asia	--	78	3.8%	41.0%	--	--
Caribbean	--	120	5.9%	48.3%	--	--
Central America	--	317	15.5%	63.4%	--	--
Other	--	147	7.2%	46.9%	--	--
Unknown	--	382	3.3%	31.4%	--	--
Total	2,005,387	11,672	100.0%	50.5%	582.0	171

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

Table 13 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	7,664	5,590	72.9%	567	9.0%	13.1%	18.6%	59.3%
Female	4,008	3,018	75.3%	620	8.4%	10.4%	16.6%	64.6%
Gender								
Male	7,600	***	***	***	***	***	***	***
Female	4,006	***	***	***	***	***	***	***
Transgender Female	64	***	***	***	***	***	***	***
Transgender Male	2	***	***	***	***	***	***	***
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	1,108	845	76.3%	559	9.2%	12.8%	20.8%	57.2%
Non-Hispanic	10,564	7,763	73.5%	588	8.8%	12.1%	17.5%	61.6%
American Indian/Alaska Native, only	7	***	***	***	***	***	***	***
Asian, only	104	73	70.2%	542	11.0%	12.3%	23.3%	53.4%
Black, only	8,773	6,450	73.5%	579	9.1%	12.4%	18.0%	60.5%
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***
White, only	1,100	783	71.2%	658	5.6%	8.8%	14.9%	70.6%
Multiracial/Other	579	451	77.9%	596	8.6%	13.7%	15.1%	62.5%
Country of Birth								
United States	9,248	6,869	74.3%	590	9.0%	12.1%	17.3%	61.7%
Foreign-Born	2,042	1,507	73.8%	563	8.2%	12.1%	21.1%	58.5%
Africa	1,380	1,006	72.9%	552	8.5%	13.3%	21.1%	57.1%
Asia	78	60	76.9%	618	5.0%	8.3%	20.0%	66.7%
Caribbean	120	91	75.8%	663	7.7%	7.7%	13.2%	71.4%
Central America	317	235	74.1%	530	9.4%	12.8%	24.7%	53.2%
Other	147	115	78.2%	643	5.2%	6.1%	20.9%	67.8%
Unknown	382	232	60.7%	612	7.8%	13.4%	14.7%	64.2%
Total	11,672	8,608	73.7%	586	8.8%	12.2%	17.9%	61.2%

*** Data withheld due to low population and/or case counts

Table 14 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Sex at Birth					
Male	7,664	5,619	73.3%	85.6%	13,778
Female	4,008	3,061	76.4%	85.5%	10,100
Gender					
Male	7,600	***	***	***	***
Female	4,006	***	***	***	***
Transgender Female	64	***	***	***	***
Transgender Male	2	***	***	***	***
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	1,108	848	76.5%	87.7%	8,530
Non-Hispanic	10,564	7,832	74.1%	85.4%	12,500
American Indian/Alaska Native, only	7	***	***	***	***
Asian, only	104	75	72.1%	90.7%	222,000
Black, only	8,773	6,505	74.1%	84.4%	11,858
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***
White, only	1,100	796	72.4%	92.0%	20,973
Multiracial/Other	579	450	77.7%	86.2%	10,700
Country of Birth					
United States	9,248	6,920	74.8%	84.8%	12,001
Foreign-Born	2,042	1,524	74.6%	89.1%	11,213
Africa	1,380	1,025	74.3%	88.6%	8,820
Asia	78	59	75.6%	86.4%	58,983
Caribbean	120	91	75.8%	91.2%	4,665
Central America	317	237	74.8%	89.0%	33,334
Other	147	112	76.2%	93.8%	5,430
Unknown	382	236	61.8%	85.2%	21,153
Total	11,672	8,680	74.4%	85.6%	12,002

*** Data withheld due to low population and/or case counts

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

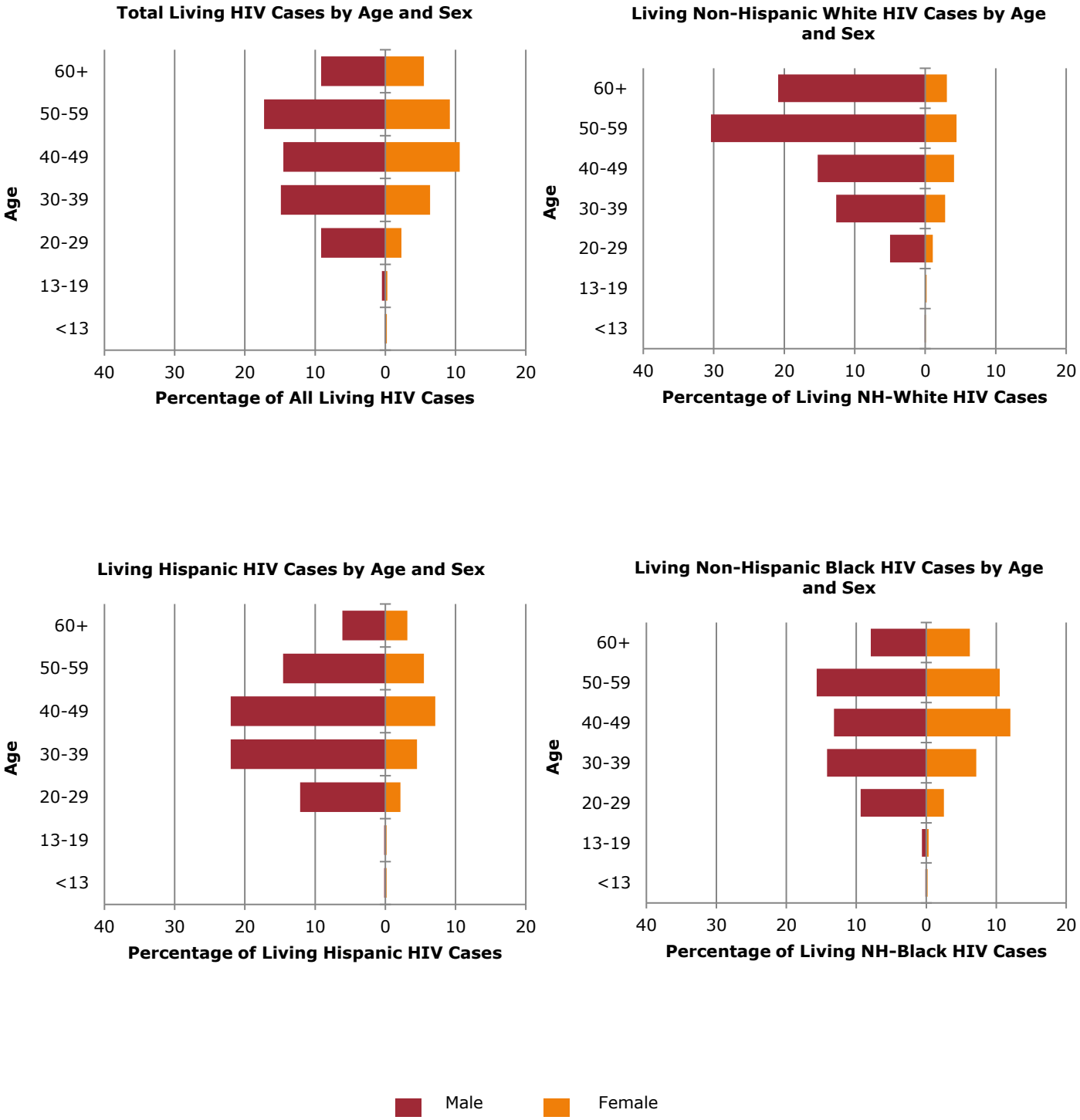


Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017, and Reported through June 30, 2018

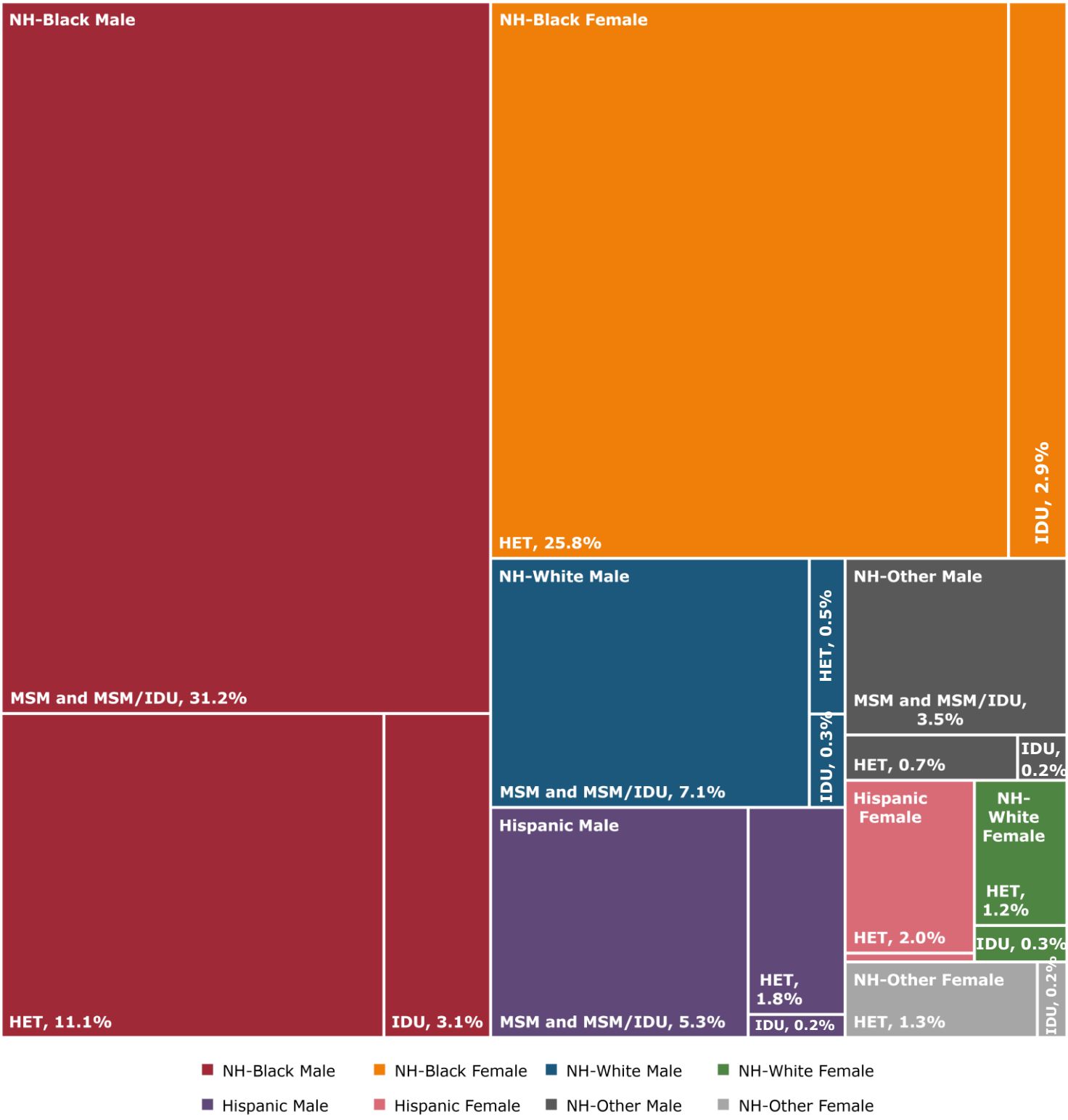
Total Living Male HIV Cases						
Age on December 31, 2017		**Race/Ethnicity**				**Total Males by Age Group**
		Hispanic	**Non-Hispanic Black, only**	**Non-Hispanic White, only**	**Non-Hispanic Other Race**	
<13 (Pediatric)	Population	52,514	69,461	59,250	27,280	208,505
	Cases	2	11	1	0	14
	Rate	3.8	15.8	1.7	0.0	6.7
	Ratio (1 in X)	26,256	6,314	59,250	--	14,893
13-19	Population	22,945	39,218	37,179	13,972	113,314
	Cases	2	53	0	4	59
	Rate	8.7	135.1	0.0	28.6	52.1
	Ratio (1 in X)	11,472	739	--	3,493	1,920
20-29	Population	32,074	59,631	51,803	18,755	162,263
	Cases	135	826	55	55	1,071
	Rate	420.9	1,385.2	106.2	293.3	660.0
	Ratio (1 in X)	237	72	941	341	151
30-39	Population	39,321	55,364	53,439	19,507	167,631
	Cases	245	1,248	139	111	1,743
	Rate	623.1	2,254.2	260.1	569.0	1,039.8
	Ratio (1 in X)	160	44	384	175	96
40-49	Population	32,807	55,984	53,993	18,684	161,468
	Cases	245	1,160	168	126	1,699
	Rate	746.8	2,072.0	311.2	674.4	1,052.2
	Ratio (1 in X)	133	48	321	148	95
50-59	Population	20,410	59,452	72,233	16,599	168,694
	Cases	162	1,378	335	147	2,022
	Rate	793.7	2,317.8	463.8	885.6	1,198.6
	Ratio (1 in X)	125	43	215	112	83
60+	Population	14,707	65,216	113,624	22,580	216,127
	Cases	68	697	230	75	1,070
	Rate	462.4	1,068.8	202.4	332.2	495.1
	Ratio (1 in X)	216	93	494	301	201
Total Males by Race/Ethnicity	Population	214,778	404,326	441,521	137,377	1,198,002
	Cases	859	5,373	928	518	7,678
	Rate	399.9	1,328.9	210.2	377.1	640.9
	Ratio (1 in X)	250	75	475	265	156

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017, and Reported through June 30, 2018

Total Living Female HIV Cases						
Age on December 31, 2017		**Race/Ethnicity**				**Total Females by Age Group**
		Hispanic	**Non-Hispanic Black, only**	**Non-Hispanic White, only**	**Non-Hispanic Other Race**	
<13 (Pediatric)	Population	50,108	67,727	56,334	25,813	199,981
	Cases	2	18	1	2	23
	Rate	4.0	26.6	1.8	7.7	11.5
	Ratio (1 in X)	25,054	3,762	56,333	12,906	8,694
13-19	Population	21,096	38,844	35,035	13,523	108,499
	Cases	2	28	2	0	32
	Rate	9.5	72.1	5.7	0.0	29.5
	Ratio (1 in X)	10,547	1,387	17,517	--	3,390
20-29	Population	28,234	62,159	48,806	19,026	158,225
	Cases	24	222	12	12	270
	Rate	85.0	357.1	24.6	63.1	170.6
	Ratio (1 in X)	1,176	279	4,067	1,585	586
30-39	Population	32,682	63,529	53,912	23,007	173,130
	Cases	50	630	31	36	747
	Rate	153.0	991.7	57.5	156.5	431.5
	Ratio (1 in X)	653	100	1,739	639	231
40-49	Population	27,900	67,619	56,059	23,165	174,743
	Cases	79	1,059	45	57	1,240
	Rate	283.2	1,566.1	80.3	246.1	709.6
	Ratio (1 in X)	353	63	1,245	406	140
50-59	Population	19,810	72,629	74,376	20,066	186,881
	Cases	61	924	49	43	1,077
	Rate	307.9	1,272.2	65.9	214.3	576.3
	Ratio (1 in X)	324	78	1,517	466	173
60+	Population	18,957	93,242	134,591	28,539	275,329
	Cases	35	548	34	25	642
	Rate	184.6	587.7	25.3	87.6	233.2
	Ratio (1 in X)	541	170	3,958	1,141	428
Total Females by Race/Ethnicity	Population	198,787	465,749	459,113	153,139	1,276,788
	Cases	253	3,429	174	175	4,031
	Rate	127.3	736.2	37.9	114.3	315.7
	Ratio (1 in X)	785	135	2,638	875	316

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017, Reported through June 30, 2018



Note. Other exposure category and perinatal transmission not shown (<1%). Multiple imputation was used to estimate and adjust for missing transmission category.

Table 17 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Reported HIV Diagnoses						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
Male-to-male Sexual Contact (MSM)	283	53.5%	89.2%	93.7%	26.0%	93.1%	374
Injection Drug Use (IDU)	21	4.0%	79.4%	87.4%	37.9%	90.2%	346
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	5	0.9%	***	***	***	***	***
Heterosexual Contact (HET)	219	41.3%	85.9%	91.5%	37.9%	91.1%	308
Perinatal Transmission	1	0.2%	***	***	***	***	***
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	529	100.0%	87.3%	92.4%	31.2%	92.1%	343
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	283	74.7%	89.2%	93.7%	26.0%	93.1%	374
Injection Drug Use (IDU)	15	4.0%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	5	1.3%	***	***	***	***	***
Heterosexual Contact (HET)	76	20.0%	86.2%	89.2%	47.8%	90.4%	228
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	379	100.0%	88.1%	92.6%	30.3%	92.3%	346
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	6	4.2%	***	***	***	***	***
Heterosexual Contact (HET)	143	95.1%	85.8%	92.8%	32.6%	91.5%	335
Perinatal Transmission	1	0.7%	***	***	***	***	***
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	150	100.0%	85.3%	92.0%	33.3%	91.3%	335

Note. Data for 2017 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

*** Data withheld due to low population and/or case counts

Table 18 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases		
	No.	% of Total	% Living with AIDS
Male-to-male Sexual Contact (MSM)	5,208	44.6%	44.6%
Injection Drug Use (IDU)	855	7.3%	63.0%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	278	2.4%	66.0%
Heterosexual Contact (HET)	5,174	44.3%	53.3%
Perinatal Transmission	111	1.0%	53.2%
Other Exposures	12	0.1%	75.0%
No Estimated or Reported Exposure	34	0.3%	50.0%
Total	11,672	100.0%	50.5%
Male Estimated or Reported Exposure Category			
Male-to-male Sexual Contact (MSM)	5,208	68.0%	44.6%
Injection Drug Users (IDU)	454	5.9%	61.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	278	3.6%	66.0%
Heterosexual Contact (HET)	1,651	21.5%	59.9%
Perinatal Transmission	48	0.6%	45.8%
Other Exposures	5	0.1%	60.0%
No Estimated or Reported Exposure	20	0.3%	45.0%
Total	7,664	100.0%	49.7%
Female Estimated or Reported Exposure Category			
Injection Drug Use (IDU)	401	10.0%	64.6%
Heterosexual Contact (HET)	3,523	87.9%	50.2%
Perinatal Transmission	63	1.6%	58.7%
Other Exposures	7	0.2%	85.7%
No Estimated or Reported Exposure	14	0.3%	57.1%
Total	4,008	100.0%	51.9%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

Table 19 – Adult/Adolescent Total Living HIV Cases by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017 and Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MSM)	592	53.4%	3,450	39.3%	780	70.9%
Injection Drug Use (IDU)	42	3.8%	699	8.0%	65	5.9%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	26	2.3%	186	2.1%	46	4.1%
Heterosexual Contact (HET)	440	39.7%	4,308	49.1%	199	18.1%
Perinatal Transmission	7	0.6%	94	1.1%	5	0.5%
Other Exposures	1	0.1%	7	0.1%	3	0.3%
No Estimated or Reported Exposure	1	0.1%	29	0.3%	3	0.3%
Total	1,108	100.0%	8,773	100.0%	1,100	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	592	69.1%	3,450	64.3%	780	84.1%
Injection Drug Use (IDU)	27	3.1%	366	6.8%	36	3.8%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	26	3.0%	186	3.5%	46	4.9%
Heterosexual Contact (HET)	207	24.1%	1,301	24.3%	63	6.8%
Perinatal Transmission	4	0.5%	40	0.7%	1	0.1%
Other Exposures	1	0.1%	1	0.0%	2	0.2%
No Estimated or Reported Exposure	1	0.1%	18	0.3%	0	0.0%
Total	857	100.0%	5,362	100.0%	927	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	15	6.1%	333	9.8%	29	16.9%
Heterosexual Contact (HET)	233	92.7%	3,007	88.2%	136	78.5%
Perinatal Transmission	3	1.2%	54	1.6%	4	2.3%
Other Exposures	0	0.0%	6	0.2%	1	0.6%
No Estimated or Reported Exposure	0	0.0%	11	0.3%	3	1.7%
Total	251	100.0%	3,411	100.0%	173	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

Table 20 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MSM)	5,208	3,811	73.2%	593	7.8%	12.2%	17.3%	62.6%
Injection Drug Use (IDU)	855	614	71.8%	575	9.8%	12.5%	18.1%	59.5%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	278	210	75.5%	583	9.8%	12.1%	18.0%	60.1%
Heterosexual Contact (HET)	5,174	3,848	74.4%	580	9.4%	11.9%	18.4%	60.3%
Perinatal Transmission	111	88	79.3%	527	13.6%	15.9%	14.8%	55.7%
Other Exposures	12	11	91.7%	408	0.0%	45.5%	9.1%	45.5%
No Estimated or Reported Exposure	34	27	79.4%	519	14.8%	3.7%	25.9%	55.6%
Total	11,672	8,608	73.7%	586	8.8%	12.2%	17.9%	61.2%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Table 21 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

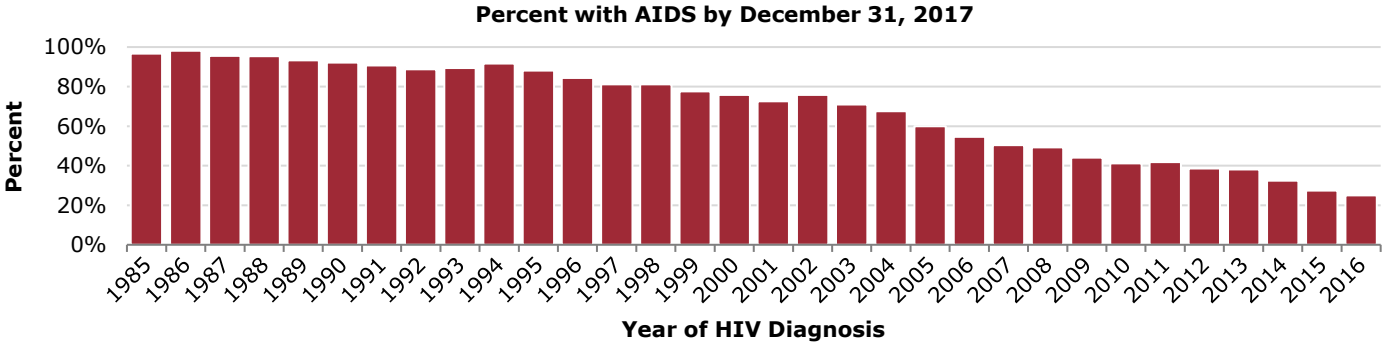
Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	5,208	3,831	73.5%	85.2%	14,400
Injection Drug Use (IDU)	855	621	72.6%	87.4%	9,710
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	278	206	74.4%	83.7%	3,699
Heterosexual Contact (HET)	5,174	3,890	75.2%	86.5%	11,100
Perinatal Transmission	111	94	84.7%	64.9%	14,322
Other Exposures	12	11	91.7%	90.9%	220
No Estimated or Reported Exposure	34	27	79.4%	63.0%	6,225
Total	11,672	8,680	74.4%	85.6%	12,002

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2016, Reported through June 30, 2018

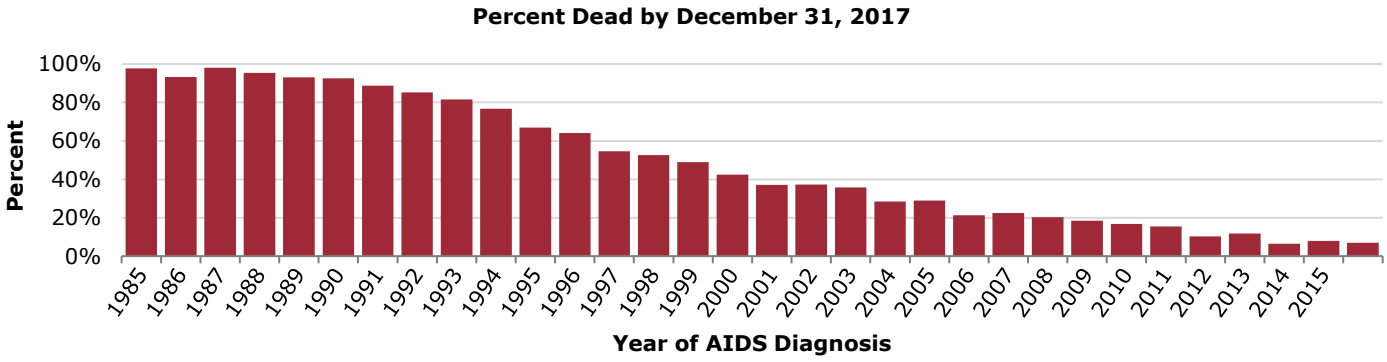
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by December 31, 2017, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018



Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	116	109	94.0%	7.5	44.0%	44.0%	46.6%	59.5%
1985	214	207	96.7%	5.7	41.1%	42.5%	50.0%	77.1%
1986	284	279	98.2%	4.8	43.7%	44.4%	54.2%	86.3%
1987	383	366	95.6%	3.8	48.3%	49.3%	65.0%	86.9%
1988	439	419	95.4%	3.2	49.0%	54.0%	73.6%	88.8%
1989	514	479	93.2%	2.9	50.8%	53.5%	73.5%	87.9%
1990	542	499	92.1%	2.9	48.2%	55.7%	74.2%	86.9%
1991	605	549	90.7%	2.6	51.9%	60.3%	77.5%	84.5%
1992	536	476	88.8%	3.0	48.7%	55.6%	71.8%	81.2%
1993	442	395	89.4%	2.2	59.5%	65.6%	76.0%	84.2%
1994	427	391	91.6%	2.0	65.6%	71.4%	78.0%	85.7%
1995	446	393	88.1%	2.0	63.7%	68.6%	74.2%	83.4%
1996	432	364	84.3%	2.1	60.4%	62.7%	71.1%	79.6%
1997	435	353	81.1%	2.0	59.3%	63.2%	68.7%	77.0%
1998	409	332	81.2%	2.0	58.9%	62.8%	68.9%	76.8%
1999	468	363	77.6%	1.8	58.8%	62.0%	66.9%	72.6%
2000	472	358	75.8%	2.0	54.4%	57.6%	64.4%	71.6%
2001	469	340	72.5%	1.9	52.5%	54.4%	62.7%	68.2%
2002	504	382	75.8%	1.3	59.7%	63.9%	69.2%	73.0%
2003	573	406	70.9%	1.5	55.0%	57.2%	62.7%	68.2%
2004	630	425	67.5%	1.6	51.6%	54.3%	58.1%	65.4%
2005	650	390	60.0%	1.2	47.7%	50.3%	54.5%	58.9%
2006	685	374	54.6%	1.5	40.4%	43.1%	48.6%	53.3%
2007	857	432	50.4%	1.6	36.2%	38.3%	43.5%	49.1%
2008	779	383	49.2%	1.3	36.2%	38.9%	45.2%	--
2009	682	301	44.1%	1.6	30.9%	33.1%	38.6%	--
2010	708	291	41.1%	1.1	30.1%	32.9%	37.7%	--
2011	610	255	41.8%	0.9	32.8%	35.9%	39.2%	--
2012	588	227	38.6%	0.7	31.5%	34.4%	38.1%	--
2013	612	233	38.1%	0.6	33.0%	34.8%	--	--
2014	593	193	32.5%	0.5	27.2%	29.2%	--	--
2015	584	160	27.4%	0.3	25.0%	26.7%	--	--
2016	525	131	25.0%	0.3	23.4%	--	--	--
Total	17,213	11,255	65.4%	2.1	44.7%	47.9%	55.3%	62.1%

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2016, Reported through June 30, 2018

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by December 31, 2017 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by December 31, 2017, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018



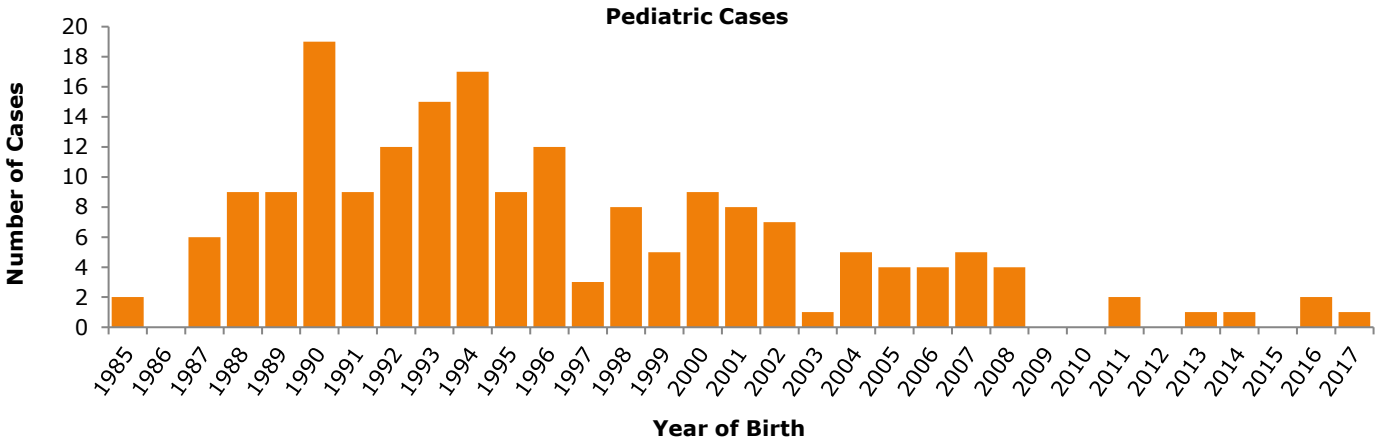
Year of AIDS Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	58	58	100.0%	0.9	34.5%	6.9%	3.4%	0.0%
1985	88	86	97.7%	1.4	40.9%	15.9%	11.4%	3.4%
1986	118	110	93.2%	1.8	51.7%	32.2%	12.7%	9.3%
1987	197	193	98.0%	2.1	52.3%	29.4%	10.7%	6.6%
1988	219	209	95.4%	2.0	61.6%	36.1%	13.2%	6.8%
1989	289	269	93.1%	3.1	68.2%	50.2%	21.1%	12.8%
1990	308	285	92.5%	3.0	65.6%	49.4%	22.7%	14.3%
1991	384	341	88.8%	2.5	68.0%	51.8%	19.8%	15.1%
1992	462	394	85.3%	3.0	74.5%	53.9%	26.0%	21.0%
1993	493	402	81.5%	3.4	73.2%	57.8%	34.3%	26.8%
1994	527	404	76.7%	3.4	76.1%	55.2%	40.6%	30.4%
1995	503	337	67.0%	4.4	75.3%	65.6%	55.1%	43.7%
1996	440	282	64.1%	5.2	81.4%	75.5%	64.5%	48.6%
1997	377	206	54.6%	4.8	81.2%	75.9%	65.0%	54.9%
1998	346	182	52.6%	5.2	85.8%	82.1%	71.4%	56.4%
1999	359	176	49.0%	4.7	85.0%	79.7%	70.8%	58.2%
2000	368	156	42.4%	5.9	92.1%	89.9%	79.3%	66.6%
2001	364	135	37.1%	4.3	87.9%	84.6%	76.6%	68.1%
2002	381	142	37.3%	4.3	88.7%	86.1%	75.9%	68.5%
2003	426	152	35.7%	4.0	88.3%	82.9%	76.3%	69.5%
2004	418	119	28.5%	4.4	91.1%	88.3%	82.8%	75.8%
2005	446	129	28.9%	3.7	89.7%	87.4%	80.3%	73.5%
2006	417	89	21.3%	3.7	93.0%	91.1%	86.1%	79.1%
2007	406	91	22.4%	3.2	90.9%	88.2%	84.5%	78.1%
2008	371	75	20.2%	2.2	90.3%	87.6%	83.3%	--
2009	324	60	18.5%	2.0	90.4%	88.9%	84.0%	--
2010	371	62	16.7%	2.0	92.7%	90.0%	85.4%	--
2011	286	44	15.4%	2.1	94.1%	90.9%	85.7%	--
2012	333	34	10.2%	1.1	93.1%	91.6%	90.1%	--
2013	360	42	11.7%	1.0	93.1%	90.3%	--	--
2014	291	19	6.5%	0.8	95.9%	94.2%	--	--
2015	250	20	8.0%	0.4	92.8%	92.0%	--	--
2016*	243	17	7.0%	0.3	93.4%	--	--	--
Total	11,223	5,320	47.4%	3.5	82.9%	75.0%	63.9%	57.1%

*2016 AIDS deaths are preliminary

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2017, Reported through June 30, 2018

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2017, as Reported by Name through June 30, 2018



Year	Pediatric Reported HIV Diagnoses				Pediatric Total Living HIV Cases
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on December 31st of Each Year
<1985	20	1	0	0	--
1985	2	5	2	1	6
1986	0	6	0	0	12
1987	6	6	4	0	18
1988	9	2	3	2	19
1989	9	7	5	2	24
1990	19	13	6	4	33
1991	9	13	8	3	43
1992	12	11	8	2	50
1993	15	8	8	4	54
1994	17	10	6	2	62
1995	9	9	9	6	64
1996	12	13	11	2	74
1997	3	5	5	1	78
1998	8	5	2	3	80
1999	5	10	6	0	89
2000	9	7	3	1	95
2001	8	5	2	2	99
2002	7	9	2	0	108
2003	1	4	1	4	108
2004	5	5	2	2	111
2005	4	8	3	1	118
2006	4	11	3	1	128
2007	5	12	3	1	139
2008	4	6	1	0	147
2009	0	3	2	0	150
2010	0	1	1	2	150
2011	2	2	2	0	153
2012	0	1	0	0	156
2013	1	2	2	1	157
2014	1	4	1	0	161
2015	0	0	6	0	160
2016	2	3	2	0	165
2017	1	2	1	0	168
Total	209	209	120	47	**--**

Table 22 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Calvert	0	0.0%
Charles	3	12.5%
Frederick	0	0.0%
Montgomery	5	20.8%
Prince George's	16	66.7%
Total	24	100.0%

Table 23 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2018

Demographic Characteristic	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Sex at Birth		
Male	10	41.7%
Female	14	58.3%
Race/Ethnicity		
Hispanic	3	12.5%
Non-Hispanic	21	87.5%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	19	79.2%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	0	0.0%
Multiracial/Other	2	8.3%
Total	24	100.0%

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis**.**

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: people's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for July 1, 2017.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2017.

Rate: Number of HIV cases divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Transgender Female: A person whose sex assigned at birth is male but whose gender identity is female.

Transgender Male: A person whose sex assigned at birth is female but whose gender identity is male.

Another Gender Identity: Additional gender identities or gender expressions.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.